

Appl. No. 10/707,225
Amtd. dated December 22, 2003
Reply to Office action of 11/23/2004

Amendments to the Claims:

Claim 1 (Original) A metal-insulator-metal (MIM) capacitor, comprising:
a first metal plate;
5 a first capacitor dielectric layer disposed on the first metal plate;
a second metal plate stacked on the first capacitor dielectric layer, wherein the first metal plate, the first capacitor dielectric layer, and the second metal plate constitute a lower capacitor;
a second capacitor dielectric layer disposed on the second metal plate; and
10 a third metal plate stacked on the second capacitor dielectric layer, wherein the second metal plate, the second capacitor dielectric layer, and the third metal plate constitute an upper capacitor;
and wherein the first metal plate and the third metal plate are electrically connected to a first terminal of the MIM capacitor, while the second metal plate is electrically
15 connected to a second terminal of the MIM capacitor.

Claim 2 (Original) The MIM capacitor according to claim 1 wherein the second metal plate has a surface area that is smaller than that of the first metal plate.

20 Claim 3 (Original) The MIM capacitor according to claim 1 wherein the third metal plate has a surface area that is smaller than that of the second metal plate.

Claim 4 (Original) The MIM capacitor according to claim 1 wherein the first capacitor dielectric layer is made of PECVD dielectric.

25 Claim 5 (Original) The MIM capacitor according to claim 1 wherein the second capacitor dielectric layer is made of PECVD dielectric.

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Claim 6 (Original) The MIM capacitor according to claim 1 wherein the second metal plate has a thickness that is thinner than that of the first metal plate.

Claim 7 (Original) The MIM capacitor according to claim 6 wherein the second metal plate has a thickness of about 1000 angstroms.

Claim 8 (Original) The MIM capacitor according to claim 6 wherein the second metal plate comprises titanium.

10 Claims 9-12 (Canceled)